

# Light Modulation System

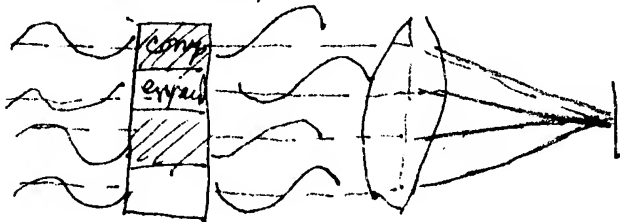
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~~laser~~ reflector



$\sim$  quartz  
 $\frac{1}{n + \Delta n} = \Delta V \pm V$

$$\Delta n = \frac{c}{\Delta V \pm V} - n = \frac{c - n\Delta V \mp nV}{\Delta V \pm V}$$

$$c = c = 3 \times 10^{10} \text{ cm/sec}$$

$$V = V_0, \text{ pressure normal.}$$

$$V = \frac{1}{\sqrt{\mu \epsilon}}$$

$$\Delta n = \frac{c - n\Delta(\mu \epsilon)^{-1/2} \mp n(\mu \epsilon)^{-1/2}}{\Delta(\mu \epsilon)^{-1/2} \pm (\mu \epsilon)^{-1/2}}$$

$$\frac{c - \frac{n}{\Delta \mu \epsilon^{1/2}} \mp \frac{n}{\mu \epsilon^{1/2}}}{\frac{1}{\Delta \mu \epsilon^{1/2}} \pm \frac{1}{\mu \epsilon^{1/2}}} = \frac{\frac{c \mu \epsilon^{1/2} \Delta \mu \epsilon^{1/2} - n \mu \epsilon^{1/2} \mp n \Delta \mu \epsilon^{1/2}}{\mu \epsilon^{1/2} \Delta \mu \epsilon^{1/2}}}{\mu \epsilon^{1/2} \pm \Delta \mu \epsilon^{1/2}}$$

$$\frac{c(\mu \epsilon)^{1/2} \Delta(\mu \epsilon)^{1/2} - n(\mu \epsilon)^{1/2} \mp n \Delta(\mu \epsilon)^{1/2}}{(\mu \epsilon)^{1/2} \pm \Delta(\mu \epsilon)^{1/2}}$$

$$\frac{(c(\mu \epsilon)^{1/2} \mp n) \Delta(\mu \epsilon)^{1/2} - n(\mu \epsilon)^{1/2}}{(\mu \epsilon)^{1/2} \pm \Delta(\mu \epsilon)^{1/2}}$$

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